WHAT IS CLAIMED:

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- An isolated human nucleic acid molecule encoding a
 protein or polypeptide that modulates transcriptional activation in a cell with or
 without collaboration with a nuclear hormone receptor transcriptional coactivator.
- 2. An isolated nucleic acid molecule according to claim 1, wherein the nucleic acid molecule either 1) has a nucleotide sequence of SEQ ID NO: 1; 2) has a nucleotide sequence of SEQ ID NO: 4; 3) encodes an amino acid having SEQ ID NO: 3; 4) has a nucleotide sequence of SEQ ID NO: 5; 4) encodes an alternatively spliced amino acid sequence having SEQ ID NO: 6; 5) has a nucleotide sequence that is at least 85% similar to the nucleotide sequence of SEQ ID NOs: 1, 4 or 5 by basic BLAST using default parameters analysis; or 6) hybridizes to the nucleotide sequence of SEQ ID NOs: 1, 4 or 5 under stringency conditions characterized by a hybridization buffer comprising 5X SSC buffer at a temperature of 56°C.
- 3. A nucleic acid construct comprising:
 the nucleic acid molecule according to claim 1;
 an operably linked 5' regulatory region; and
 an operably linked 3' regulatory region.
 - An expression vector comprising:
 the nucleic acid construct according to claim 3.
 - 5. A host cell transformed with the nucleic acid molecule according to claim 1.
- 30 6. The host cell according to claim 5, wherein the host cell is selected from the group consisting of a bacterial cell, a yeast cell, and a mammalian cell.

7 mammalian cell	7.	The host cell according to claim 6, wherein the host cell is a			
mammanan cen	l .				
8	3.	An antisense nucleic acid molecule which is derived from			
the nucleic acid molecule according to claim 1 or a fragment thereof.					
9).	The antisense nucleic acid molecule according to claim 8,			
		molecule is a single-stranded nucleic acid molecule.			
	0.	The antisense nucleic acid molecule according to claim 8,			
wherein the anti	sense	molecule is a double-stranded nucleic acid molecule.			
1	1.	An expression vector comprising:			
tł	he anti	sense nucleic acid molecule according to claim 8;			
a	an operably linked 5' regulatory region; and				
a	n oper	ably linked 3' regulatory region.			
1	2.	A host cell transduced with the antisense nucleic acid			
molecule accord					
	<i>5</i> ·				
1:	3.	The host cell according to claim 12, wherein the host cell is			
selected from the group consisting of a bacterial cell, a yeast cell, and a					
mammalian cell.					
1,	4.	The host cell according to claim 13, wherein the host cell is			
a mammalian ce		The most con according to claim 13, wherein the host con is			
		An isolated protein or polypeptide that modulates			
transcriptional activation in a cell with or without collaboration with a nuclear					
hormone receptor transcriptional co-activator.					

- 16. The isolated protein or polypeptide according to claim 15, wherein the protein or polypeptide has an amino acid sequence of SEQ ID NO: 3.
- The isolated protein or polypeptide according to claim 15,
 wherein the protein or polypeptide has an amino acid sequence of SEQ ID NO: 6.
 - 18. An isolated antibody or binding portion thereof raised against a protein or polypeptide according to claim 15.
- 19. The isolated antibody or binding portion thereof according to claim 18, wherein said antibody is monoclonal or polyclonal.
- 20. The antibody or binding portion thereof according to claim 18, wherein the binding portion thereof is selected from the group consisting of an Fab fragment, an F(ab')₂ fragment, and an Fv fragment.
 - 21. The isolated antibody or binding portion thereof according to claim 18, wherein the protein or polypeptide has an amino acid sequence of SEQ ID NO: 3.

- 22. The isolated antibody or binding portion thereof according to claim 18, wherein the protein or polypeptide has an amino acid sequence of SEQ ID NO: 6.
- 23. A method of regulating cell proliferation comprising:
 transfecting a cell with the nucleic acid according to claim 1 under
 conditions effective to regulate cell proliferation.
- The method according to claim 23, wherein the cell is a mammalian cell.
 - 25. The method according to claim 24, wherein the mammalian cell is human.

		26.	A method of regulating differentiation of a cell comprising:			
		transfe	cting a cell with the nucleic acid molecule according to			
	claim 1 under conditions effective to regulate differentiation of the cell.					
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		27.	The method according to claim 26, wherein the cell is a			
	mammalian ce	ell.				
		28.	The method according to claim 27, wherein the mammalian			
10	cell is human.					
		29.	A method of regulating development of a cell comprising:			
			ecting a cell with the nucleic acid molecule according to			
	claim 1 under conditions effective to regulate development of the cell.					
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		30.	The method according to claim 29, wherein the cell is a			
	mammalian ce	ell.				
		2.1				
	11 * 1	31.	The method according to claim 30, wherein the mammalian			
20	cell is human.					
		32.	A method of modulating activity of a transcriptional co-			
	activator com		a cell, said method comprising:			
	activator comp	-	ecting a cell with the nucleic acid molecule according to			
25	claim 1, or a fragment thereof, under conditions effective to modulate activity of a					
23	transcriptional co-activator complex in the cell.					
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		33.	The method according to claim 32, wherein the cell is a			
	mammalian ce	ell.				
30						
		34.	The method according to claim 33, wherein the mammalian			
	cell is human.		-			

35. A method of modulating activity of a transcriptional coactivator complex in a cell, said method comprising:

transfecting a cell with the nucleic acid molecule according to claim 8 under conditions effective to modulate activity of a transcriptional coactivator complex in the cell.

- 36. The method according to claim 35, wherein the cell is a mammalian cell.
- The method according to claim 36, wherein the mammalian cell is human.
 - 38. A method of modulating activity of a transcriptional coactivator complex in a cell, said method comprising:
- 15 contacting a cell with the isolated protein or polypeptide according to claim 15 under conditions effective to modulate activity of a transcriptional coactivator complex in the cell.
- 39. The method according to claim 38, wherein the cell is a 20 mammalian cell.
 - 40. The method according to claim 39, wherein the mammalian cell is human.
- 25 41. A method of modulating activity of a transcriptional coactivator complex in a cell, said method comprising:

contacting a cell with the antibody or binding portion thereof according to claim 18 under conditions effective to modulate activity of a transcriptional co-activator complex in the cell.

42. The method according to claim 41, wherein the cell is a mammalian cell.

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- 43. The method according to claim 42, wherein the mammalian cell is human.
- 44. A method of regulating hormone receptor activity in a cell comprising:

 contacting a cell with an isolated protein or polymentide according

contacting a cell with an isolated protein or polypeptide according to claim 15 under conditions effective to regulate hormone receptor activity in the cell.

- 10 45. The method according to claim 44, wherein the hormone receptor is selected from the group consisting of an estrogen receptor, a progesterone receptor, a vitamin D receptor, a thyroid hormone receptor, a retinoic acid receptor, a retinoid X receptor, a glucocorticoid receptor, a peroxisome-proliferation activated receptor, a liver X receptor, a bile acid receptor and an orphan receptor.
 - 46. The method according to claim 44, wherein the cell is a mammalian cell.
- 20 47. The method according to claim 46, wherein the mammalian cell is human.
 - 48. A method of regulating hormone receptor activity in a cell comprising:
- 25 contacting a cell with the antibody or binding portion thereof according to claim 18 under conditions effective to regulate hormone receptor activity in the cell.
- 49. The method according to claim 48, wherein the hormone receptor is selected from the group consisting of an estrogen receptor, a progesterone receptor, a vitamin D receptor, a thyroid hormone receptor, a retinoic acid receptor, a retinoid X receptor, a glucocorticoid receptor, a peroxisome-

proliferation activated receptor, a liver X receptor, a bile acid receptor and an orphan receptor.

- 50. The method according to claim 48, wherein the cell is a mammalian cell.
 - 51. The method according to claim 50, wherein the mammalian cell is human.
- 52. A method of regulating hormone receptor activity in a cell comprising:

transfecting a cell with a nucleic acid molecule according to claim 1 under conditions effective to regulate hormone receptor activity in the cell.

- 15 53. The method according to claim 52, wherein the hormone receptor is selected from the group consisting of an estrogen receptor, a progesterone receptor, a vitamin D receptor, a thyroid hormone receptor, a retinoic acid receptor, a retinoid X receptor, a glucocorticoid receptor, a peroxisome-proliferation activated receptor, a liver X receptor, a bile acid receptor and an orphan receptor.
 - 54. The method according to claim 52, wherein the cell is a mammalian cell.
- 25 55. The method according to claim 54, wherein the mammalian cell is human.
 - 56. A method of regulating hormone receptor activity in a cell comprising:
- transfecting a cell with a nucleic acid molecule according to claim 8 under conditions effective to regulate hormone receptor activity in the cell.

- 57. The method according to claim 56, wherein the hormone receptor is selected from the group consisting of an estrogen receptor, a progesterone receptor, a vitamin D receptor, a thyroid hormone receptor, a retinoic acid receptor, a retinoid X receptor, a glucocorticoid receptor, a peroxisome-proliferation activated receptor, a liver X receptor, a bile acid receptor and an orphan receptor.
 - 58. The method according to claim 56, wherein the cell is a mammalian cell.

- 59. The method according to claim 58, wherein the mammalian cell is human.
- 60. A method of modulating activity of a transcription factor in a cell comprising:

transfecting a cell with a nucleic acid molecule according to claim 1 under conditions effective to modulate activity of transcription factor in the cell.

- The method according to claim 60, wherein the
 transcription factor is selected from the group consisting of cFos, cJun, AP1, NF kB, p53, and STATs.
 - 62. The method according to claim 60, wherein the cell is a mammalian cell.

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- 63. The method according to claim 62, wherein the mammalian cell is human.
- 64. A method of modulating activity of a transcription factor in a cell comprising:

transfecting a cell with a nucleic acid molecule according to claim 8 under conditions effective to modulate activity of transcription factor in the cell.

		05.	A method according to claim 64, wherein the transcription
	factor is selec	ted from	n the group consisting of cFos, cJun, AP1, NF-κB, p53, and
	STATs.		
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5		66.	The method according to claim 64, wherein the cell is a
	mammalian c	ell.	
		67.	The method according to claim 66, wherein the mammalian
	cell is human.		
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		68.	A method of modulating endocrine function in a subject,
	anid mother de		
	said method c	•	
		treatin	g a subject with a nucleic acid molecule according to claim 1
	under condition	ons effe	ctive to modulate endocrine function in the subject.
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		69.	The method according to claim 68, wherein the subject is a
	mammal.		•
		70.	
•		70.	The method according to claim 69, wherein the mammal is
20	human.		
		71.	A method of modulating endocrine function in a subject,
	said method c	omprisi	ng:
		treatin	g a subject with a nucleic acid molecule according to claim 8
25	under conditio		ctive to modulate endocrine function in the subject.
		,115 0110	onvo to modulate endocrine function in the subject.
		5 0	
		72.	The method according to claim 71, wherein the subject is a
	mammal.		
30		73.	The method according to claim 72, wherein the mammal is
	human.		

74. A method of modulating endocrine function in a subject, said method comprising:

treating a subject with a protein or polypeptide according to claim 15 under conditions effective to modulate endocrine function in the subject.

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- 75. The method according to claim 74, wherein the subject is a mammal.
- 76. The method according to claim 75, wherein the mammal is 10 human.
 - 77. A method of modulating endocrine function in a subject, said method comprising:
- treating a subject with the antibody or binding portion thereof
 according to claim 18 under conditions effective to modulate endocrine function
 in the subject.
 - 78. The method according to claim 77, wherein the subject is a mammal.

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- 79. The method according to claim 78, wherein the mammal is human..
 - 80. A method of treating diabetes comprising: treating a subject having diabetes with a protein or polypeptide

according to claim 15 under conditions effective to treat diabetes.

81. The method according to claim 80, wherein the subject is a mammal.

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82. The method according to claim 81, wherein the mammal is human.

- 83. A method of treating diabetes comprising:
 treating a subject having diabetes with an antibody or binding
 portion thereof according to claim 18 under conditions effective to treat diabetes.
- 5 84. The method according to claim 83, wherein the subject is a mammal.
 - 85. The method according to claim 84, wherein the mammal is human.
- 86. A method of treating insulin resistance in a subject, said method comprising:

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treating a subject having insulin resistance with a protein or polypeptide according to claim 15 under conditions effective to treat insulin resistance.

- 87. The method according to claim 86, wherein the subject is a mammal.
- 20 88. The method according to claim 87, wherein the mammal is human.
 - 89. An isolated rat nucleic acid molecule encoding a protein or polypeptide that modulates transcriptional activation in a cell with or without collaboration with a nuclear hormone receptor transcriptional co-activator.
 - 90. The isolated nucleic acid molecule according to claim 89, wherein the nucleic acid molecule either 1) has a nucleotide sequence of SEQ ID NO: 7; 2) encodes an amino acid having SEQ ID NO: 8; 3) has a nucleotide sequence that is at least 85% similar to the nucleotide sequence of SEQ ID NO: 7 by basic BLAST using default parameters analysis; or 4) hybridizes to the nucleotide sequence of SEQ ID NO: 7 under stringency conditions characterized by a hybridization buffer comprising 5X SSC buffer at a temperature of 56°C.

91. A nucleic acid construct comprising: the nucleic acid molecule according to claim 89; an operably linked 5' regulatory region; and an operably linked 3' regulatory region.